

the DATASTAKTM system

The Model 6111 DATASTAK is the first disc pack storage system to preserve a permanent "clean room" environment for the discs and heads. This vital concept ensures maximum reliability, minimum maintenance and absolute storage integrity. Other features of the system are:

- Exclusive use of silicon, solid-state elements, which are predominately integrated circuits.
- Format flexibility coupled with variable length record capability allows format compatibility with all major random-access storage devices.
- A convenient and versatile interface minimizes controller design and significantly aids installation.
- Units are compact and combine both functional convenience and appearance to complement any modern data processing complex.

the disc pack

The Model 611 Disc Pack is engineered to provide a rugged housing to withstand handling during replacement and storage and to maintain a permanent "clean room" environment for the discs. The case is cylindrical with a clear plastic top. Two handles combine ease of carrying and convenience of placement.

Six 14-inch magnetic oxide discs are mounted on a cast aluminum hub. Ten disc surfaces store data with the eleventh normally a spare and the twelfth used to control the positioner.

A pack stores 60 million bits of information. Packs are completely interchangeable among all Model 6111 drive units. The DATASTAK System also offers a unique fail-safe write lockout feature. The discs are locked out by removing a ring from the center of the disc pack, thus critical data is protected from erasure or alteration and preserved for reading only.

the drive unit

The Model 6111 Drive Unit ensures that all Model 611 Disc Packs are interchangeable without adjustment. Each unit has a precision spindle, a positioner, a comb and head mechanism, a source of ultra-clean air, and the necessary electronics and power supplies to read and write data and operate the positioner.

The spindle and precision collet precisely locate the disc pack with a repeatability of about fifty millionths of an inch. The positioner locates the heads over the tracks with a total maximum error of less than one thousandth of an inch. The heads "fly" at about fifty millionths of an inch from the storage surface.

The random average access time of the positioner is less than 60 milliseconds. The typical one-step time is 30 milliseconds and even a full stroke rarely exceeds 100 milliseconds.

summary of specifications

Functional

Addressable Capacity	7.36 million 8-bit bytes
Transfer Rate	1400 kilobits/second
Average Latency	17 milliseconds
Average Positioning Time	60 milliseconds

General

Drive Unit Size	38"H, 42"W, 24"D
Drive Unit Weight	600 lbs.
Disc Pack Size	3-1/4"H, 14-3/4" Dia.
Disc Pack Weight	10 lbs.
Operating Temperature	50°F to 100°F
Power Requirements	110 vac, 50/60 cps 700 watts

More information is available in the Specification or the General Information Manual for the Model 6111 DATASTAK.

Contact: *data products corporation* DISCFILE[®] Division

8535 WARNER DRIVE / CULVER CITY / CALIFORNIA



data products corporation